

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: 768836

Luminaire Tested: **GSM-AM-1000-HPS-MT-3V-FG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 768836  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GSM-AM-1000-HPS-MT-3V-FG  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-TYPE 3 DISTRIBUTION  
Light Source: 1000 WATT HPS CLEAR BT-37  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 135000 (1 lamp)  
Luminaire Lumens: 89920.5 lumens  
Efficiency: 66.6%  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 1000  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

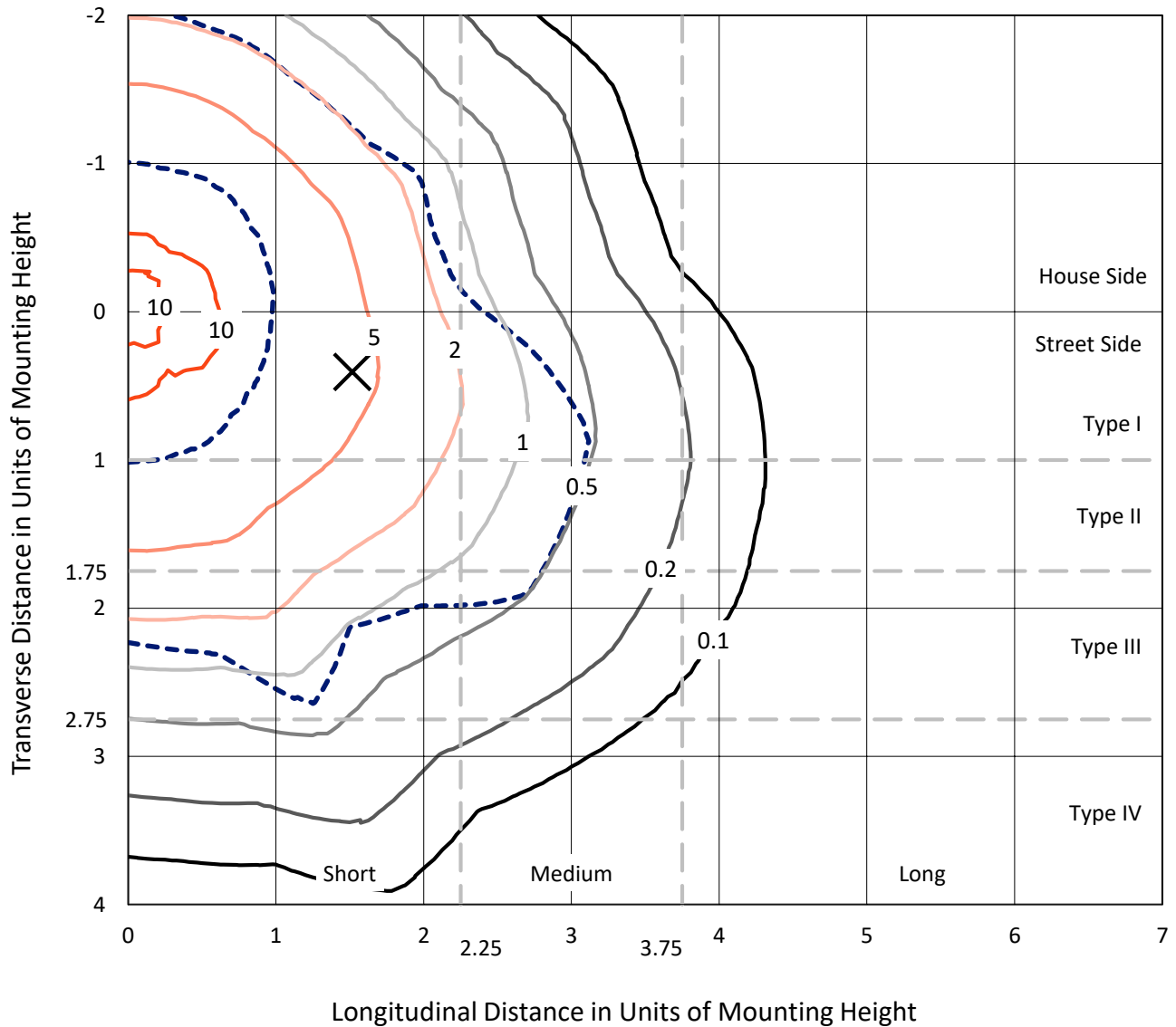


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

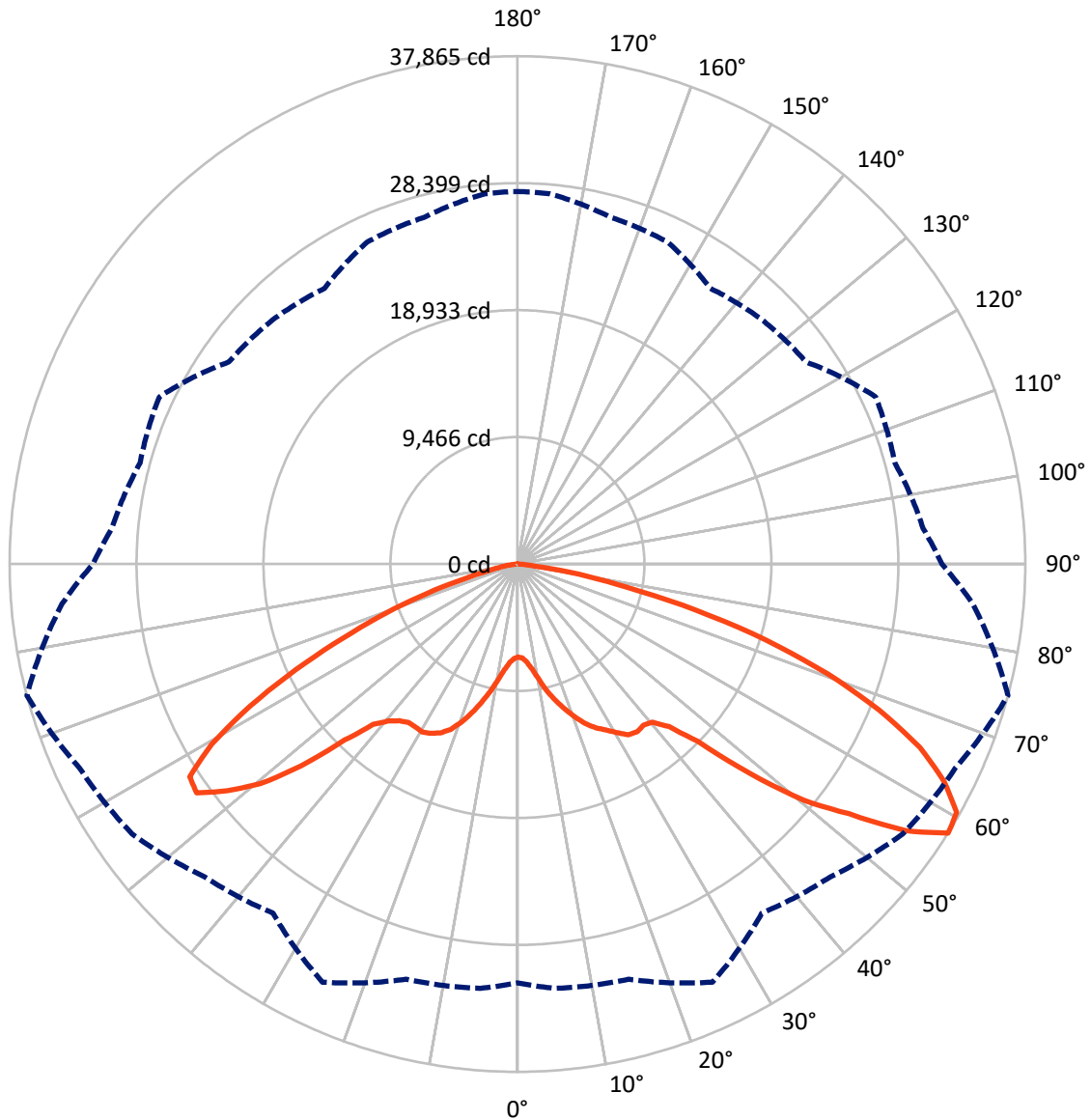


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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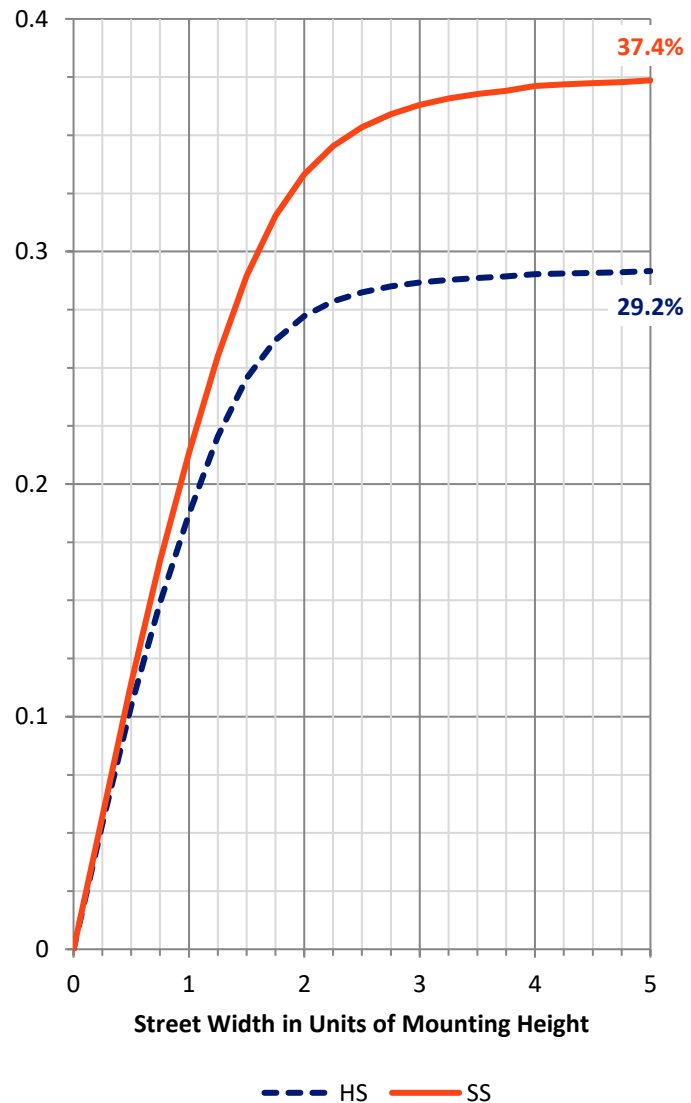
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	39474.5	0.0	39474.5
	% Lamp	29.2	0.0	29.2
<b>Street Side</b>	Lumens	50446.0	0.0	50446.0
	% Lamp	37.4	0.0	37.4
<b>Total</b>	Lumens	89920.5	0.0	89920.5
	% Lamp	66.6	0.0	66.6

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	745.2	0.8	0.6
10°-20°	2942.9	3.3	2.2
20°-30°	6015.5	6.7	4.5
30°-40°	9088.7	10.1	6.7
40°-50°	14868.0	16.5	11.0
50°-60°	25973.3	28.9	19.2
60°-70°	21682.5	24.1	16.1
70°-80°	7918.5	8.8	5.9
80°-90°	685.9	0.8	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	89920.5	100.0	66.6
0°-180°	89920.5	100.0	66.6



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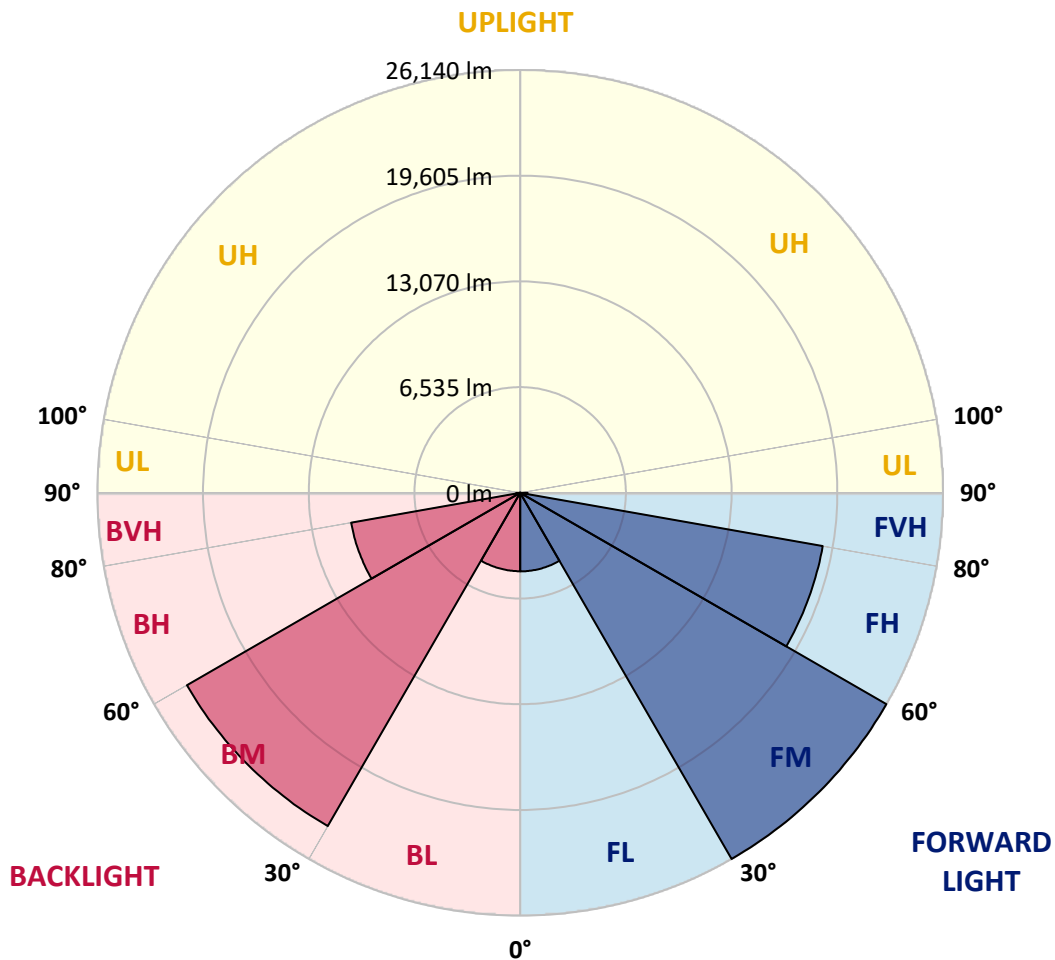
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4857.2	3.6			
FM	(30°-60°)	26140.4	19.4			
FH	(60°-80°)	18989.3	14.1			G5
FVH	(80°-90°)	459.1	0.3			G3/500
BL	(0°-30°)	4846.3	3.6	B4/5000		
BM	(30°-60°)	23789.6	17.6	B5		
BH	(60°-80°)	10611.8	7.9	B5		G5
BVH	(80°-90°)	226.8	0.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		45079.5	33.4			

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6938	6938	6938	6938	6938	6938	6938	6938	6938	6938	6938
2.5°	7071	7066	7066	7071	7066	7046	7035	7025	7015	7010	7025
5°	7492	7482	7482	7497	7466	7430	7364	7338	7348	7348	7364
7.5°	8159	8159	8123	8097	8026	7959	7928	7918	7902	7918	7918
10°	8939	8939	8893	8785	8688	8641	8657	8688	8718	8744	8759
12.5°	9770	9760	9663	9509	9370	9416	9529	9611	9683	9734	9724
15°	10499	10514	10355	10104	9940	10063	10283	10417	10520	10627	10617
17.5°	11115	11125	10904	10607	10453	10715	11063	11217	11341	11479	11510
20°	11741	11731	11459	11130	11002	11371	11808	12033	12151	12305	12351
22.5°	12439	12423	12131	11756	11654	12074	12531	12772	12901	13101	13162
25°	13054	13039	12695	12290	12187	12664	13172	13429	13521	13655	13716
27.5°	13588	13593	13296	12870	12639	13219	13732	13994	13999	14060	14117
30°	14071	14045	13809	13470	13101	13675	14291	14599	14579	14496	14476
32.5°	14543	14502	14255	13947	13583	14281	15102	15348	15189	14963	14717
35°	14902	14886	14650	14291	13927	14779	15656	15892	15369	14984	14763
37.5°	15035	15030	14732	14296	13973	14845	15641	15831	15246	15179	15030
40°	15518	15528	15169	14491	14301	15087	15800	15995	15492	15574	15446
42.5°	16277	16375	16092	15461	15317	16103	16503	16770	16564	16682	16534
45°	18053	18130	17770	17452	17303	18299	18437	19028	18843	19351	19299
47.5°	21255	21496	20936	20782	20906	22127	22383	23240	23343	23913	23625
50°	25247	25503	24693	24631	24929	26319	26212	27269	27695	27602	26894
52.5°	27443	27879	27346	27777	27366	28685	28767	30296	30938	30091	28839
55°	29865	30286	30271	31574	30132	31194	32149	33796	35094	33088	31189
57.5°	31230	31759	32051	34401	31774	32980	35074	36018	37865	34088	31641
60°	29260	29804	30409	34145	30681	32000	35140	35818	37624	32534	29583
62.5°	25113	25565	26781	32092	28090	29691	33760	34509	35710	29778	26366
65°	20382	21034	22768	29378	24836	26817	31692	32441	32980	26417	22594
67.5°	15394	16190	18165	25580	20952	23076	28300	28890	29095	22404	18509
70°	11166	11828	13834	21008	17016	19207	24472	24677	24549	18345	14722
72.5°	7707	8149	9945	16144	13137	15415	20136	19751	19366	13963	10961
75°	4711	5013	6384	11443	9232	11382	14738	14650	13768	9832	7400
77.5°	1724	1837	2699	6820	4721	6666	8657	9360	8303	6307	4490
80°	729	785	1360	3479	2432	3997	4767	5568	4639	3961	2879
82.5°	349	385	600	949	1067	1770	1817	2073	1252	1288	1062
85°	154	169	200	380	313	549	636	688	334	318	303
87.5°	31	36	31	41	46	46	56	56	31	31	26
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6938	6938	6938	6938	6938	6938	6938	6938	6938	6938
2.5°	7030	7046	7061	7071	7092	7081	7056	7046	7035	7030
5°	7364	7364	7400	7410	7400	7374	7343	7317	7266	7256
7.5°	7923	7938	7944	7913	7851	7800	7769	7779	7743	7738
10°	8765	8724	8682	8554	8421	8375	8369	8400	8416	8416
12.5°	9719	9698	9616	9344	9108	9067	9103	9139	9185	9185
15°	10627	10632	10561	10253	9868	9765	9837	9935	9976	10006
17.5°	11525	11587	11546	11202	10684	10520	10602	10720	10761	10797
20°	12408	12495	12495	12110	11510	11258	11320	11459	11489	11525
22.5°	13183	13306	13316	12901	12233	11900	12003	12085	12121	12121
25°	13742	13829	13850	13388	12726	12351	12469	12582	12577	12572
27.5°	14122	14168	14173	13681	13054	12623	12859	13085	13034	13024
30°	14368	14394	14404	13942	13326	12936	13285	13527	13383	13332
32.5°	14384	14332	14419	14035	13496	13183	13686	13901	13747	13732
35°	14404	14327	14353	14045	13455	13203	13793	14199	14219	14245
37.5°	14722	14625	14697	14378	13701	13347	13886	14553	14702	14727
40°	15215	15169	15194	14876	14168	13722	14276	14994	15271	15251
42.5°	16292	16077	16056	15692	14856	14604	15169	16056	16138	16226
45°	18858	18412	18109	17786	17078	16867	17698	18366	18427	18319
47.5°	22886	22091	21680	21409	20818	20747	21280	22014	22235	22250
50°	25950	25216	24867	24405	23943	23518	24272	25052	25724	25544
52.5°	28044	27459	27115	26176	25765	25175	26227	27130	27561	27515
55°	30168	29383	29393	27187	26679	26140	27510	28172	28444	28315
57.5°	30363	29131	29475	26263	25770	25083	26489	26776	27715	27772
60°	27746	26458	26961	23538	22850	22348	23553	23831	24795	25001
62.5°	23979	22578	23251	19818	19007	18817	19772	19982	20962	20926
65°	19782	18299	19202	15867	15133	14938	15861	16087	16729	16647
67.5°	15379	14112	14953	11772	11264	11099	11782	12151	12562	12531
70°	11607	10453	11079	8236	7826	7851	8169	8513	8970	8990
72.5°	8036	7056	7369	5137	4870	4829	4983	5398	5937	6004
75°	4895	4023	4177	2935	2761	2725	2868	3197	3515	3541
77.5°	2576	2053	2171	2042	1950	1940	2022	2186	2330	2350
80°	1688	1350	1478	1462	1370	1329	1319	1339	1365	1355
82.5°	842	682	734	698	693	662	667	652	657	647
85°	298	231	251	241	226	216	210	200	200	195
87.5°	26	15	21	15	15	10	10	5	5	0
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)